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UNDESCRIBED PLANTS FROM GUATEMALA AND  
OTHER CENTRAL AMERICAN REPUBLICS. XXI.

JOHN DONNEILL SMITH.

[Concluded from p. 339.]

**Ardisia Palmana** Donn. Sm.—Glabra. Folia subsessilia opaca subimmaculata integra oblongo-lanceolata e medio utrinque praesertim superne acute angustata. Paniculae terminales vastae floribunda, axibus alternis divaricatis, floriferis brevibus ad apicem versus subcapitato-floris. Calyx basi producto sessilis partitus, segmentis orbicularibus tubum corollinum paulo superantibus quam lobi ovales dimidio brevioribus. Antherae filamentis fere aequilongae.

Arbor, coma globosa (Tonduz in schedulis). Folia 1.5-3<sup>dm</sup> longa 3.5-8<sup>cm</sup> lata in petiolum brevissimum marginatum desinentia subtus pallidiora et obscure nigro-punctata, nervis approximatis. Paniculae folia aequantes folioso-bracteatae, axe flexuoso, ramis glanduloso-puberulis, inferioribus 1.5-2<sup>dm</sup> longis, floriferis 5-10<sup>mm</sup> longis, floribus arcte confertis 5-meris totis pallide roseis parce nigro-punctatis, bracteolis lanceolatis 1<sup>mm</sup> longis. Calycis segment adextrorum obtegmentia 1.5<sup>mm</sup> longa ciliatula basin crassum obpyramidaluma equantia. Corollae 4<sup>mm</sup> longae lobi dextrorum convoluti 2<sup>mm</sup> lati. Stamina prope basin corollae affixa 4<sup>mm</sup> longa, antheris sagittato-lanceolatis longitudinaliter dehiscentibus. Ovarium diam. 1 millemetrale, stylo 3<sup>mm</sup> longo. Fructus ignotus.

In sylvis prope La Palma, Costa Rica, alt. 1460<sup>m</sup>, Sept. 1898, *Tonduz*, n. 12632 herb. nat. Cost.

**Ardisia spicigera** Donn. Sm.—Glaberrima. Folia coriacea oblanceolata acutiuscula in petiolum brevissimum longe angustata integerrima. Spicae interrupte densiflorae paniculam terminalem formantes, floribus ebracteolatis. Filamenta filiformia, antheris parvis.

Folia decurva 10-15<sup>cm</sup> longa 3-5<sup>cm</sup> lata opaca subtus squamulis fuscis ope lenti tantum conspicuis conspersa, costa nervisque supra immersis, petiolis 3-5<sup>mm</sup> longis. Paniculae ramos terminantes folia superantes, axibus

angulatis, secundariis suberecto-patentibus 6-10<sup>cm</sup> longis plerumque simplicibus, floribus aggregatis aut passim solitariis 5-meris parce lineato- et puncto-maculatis, alabastris ovoideis. Calycis partiti segmenta orbiculari-ovata obtusa 2<sup>mm</sup> longa ciliata extus in medio rugulosa intus prope basin aureo-papillosa. Corollae tubus 2<sup>mm</sup> longus, lobi dextrorsum obtegentes oblongi 3<sup>mm</sup> longi obtusi. Filamenta basi dilatata 3<sup>mm</sup> longa, antheris sagittato-triangularibus apiculatis 1<sup>mm</sup> longis apice biporosis. Ovarium globosum 1.5<sup>mm</sup> diam., stylo 5<sup>mm</sup> longo. Fructum non vidi.

Comitan, Chiapas, Mexico, Aug. 1896, *Seler*, 2678.

**Prestonia speciosa** Donn. Sm.—Fusco-velutina. Folia discoloria supra parce pubescentia ovalia cuspidato-acuminata basi obtusa. Cyma umbelliformis pedunculata, floribus maximis. Calyx pedicello aequilongus. Corolla usque ad medium fissa, tubo supra medium sensim ampliato calycem bis superante esquamato, lobis dolabriformibus. Antherae inclusae.

Stipulae interpetiolares utrinsecus circiter 8 setaceae 3<sup>mm</sup> longae glabrae stramineae. Folia 16-21<sup>cm</sup> longa 9-13<sup>cm</sup> lata, nervis lateralibus utrinque 8-10, petiolis 1-1.5<sup>cm</sup> longis. Pedunculus 5-8<sup>mm</sup> longus, pedicellis 5-9 aequalibus 1.8<sup>cm</sup> longis, bracteis lanceolatis 1<sup>cm</sup> longis, alabastris fusiformibus 6<sup>cm</sup> longis, 1<sup>cm</sup> latis. Calycis segmenta oblongo-ovata, squamae truncato-deltoidae superne glabrae et stramineæ paudentatae denique setaceo-laceratae. Corollae tubus 3.6<sup>cm</sup> longus ad 2/3 longitudinis staminigerus, fauces superne 1.5<sup>cm</sup> latae et plica 2<sup>mm</sup> lata instructae, lobi glabri valde inaequilateres 2.5<sup>cm</sup> lati. Filamenta 3<sup>mm</sup> longa, antheris 8<sup>mm</sup> longis. Disci partiti segmenta dentata ovarium paulo superantia, carpellis glabris semiorbicularibus 1.5<sup>mm</sup> altis. Folliculi non suppetunt.

Buena Vista, Depart. Santa Rosa, Guat., alt. 1700<sup>m</sup>, Apr. 1893, *Heyde et Lux*, n. 4497 Pl. Guat. etc., qu. ed. Donn. Sm.

**Forsteronia myriantha** Donn. Sm.—Fusco-pubescentis. Folia opaca supra glabrescentia subtus ad nervos pubescentia denique glabra oblongo-elliptica acuminata mucrunculata basi acuta, inferiora minora elliptica utrinque obtusa. Cymae in thyrsum terminalem pedunculatum ovoideum compactae, floribus corymboso-fasciculatis inter minores pedicellos vix ac ne vix superantibus. Corolla ad fauces albo-barbata calyce intus glanduloso 3-plo longior, lobis tubo 3-plo longioribus. Filamenta antheris dimidio breviora.

Folia majora 8–10<sup>cm</sup> longa 3.5–4<sup>cm</sup> lata, minora 2.5–4.5<sup>cm</sup> longa, 1.5–2.5<sup>cm</sup> lata, nervis lateralibus utrinsecus 5–7, venis transversis subitus conspicuis, petiolis 3–5<sup>mm</sup> longis. Pedunculi 0.5–3<sup>cm</sup> longi. Thyrsus 3–4<sup>cm</sup> longus atque latus, ramis secundariis aut primariis apice cymiferis, bracteolis linearis-lanceolatis 1–2.5<sup>mm</sup> longis, floribus 3.5–4<sup>mm</sup> longis. Calycis pubescens segmenta ovata acuta intus circiter 6-glandulosa. Corollae segmenta utrinsecus puberula oblonga obtusa. Filamenta breviter filiformia, antheris oblongis 2<sup>mm</sup> longis breviter acutata. Disci squamae sejunctae semiorbiculares. Ovarii carpella ovoidea hirtella. Folliculi non visi.

Embaulada, Depart. Zacatepéquez, Guat., alt. 1800<sup>m</sup>, m. Dec. 1889, *Heyde et Lux*, n. 4534 Pl. Guat. etc., qu. ed. Donn. Sm.—Naranjo, Depart. Santa Rosa, Guat., alt. 1100<sup>m</sup>, Maj. 1893, *Heyde et Lux*, n. 4533 Pl. Guat. etc., qu. ed. Donn. Sm.

**Lithospermum Guatemalense** Donn. Sm.—Suffruticosum canescens scabro-strigosum, caulibus pluribus strictis foliosis superne 2–3-chotomis. Folia sessilia suberecta linearis-lanceolata acuta basi obtusa subtriplinervia subtus densius strigosa, floralia conformia reducta. Flores brevissime pedicellati. Corolla cylindracea segmentis calycinis linearibus 3-plo longior, faucibus nudis, lobis rotundatis. Antherae subsessiles.

Caules 3–4.5<sup>dm</sup> longi. Folia approximata 3–5<sup>cm</sup> longa 5–8<sup>mm</sup> lata, nervo laterali utrinsecus 1 opposito e basi remoto. Racemus floriferus pauciflorus vix scorpioideus, fructiferus elongatus. Calyx floriferus quam bractea paulo brevior, fructiferus 2–3-plo brevior, segmentis 7<sup>mm</sup> longis dense longeque strigosis. Corolla aurata (cl. Seler in schedulis) 21<sup>mm</sup> longa e basi sensim ampliata extus pubescens, lobis 3<sup>mm</sup> longis atque latis. Antherae paulo infra fauces insertae oblongae 2<sup>mm</sup> longae obtusae. Stylus paulo exsertus, stigmatibus distinctis. Nuculae plerumque binae ovoideae 3.5<sup>mm</sup> longae ecarinatae albae nitidae foveolatae areola basilari gynobasi planae affixae.

Trinidad, Depart. Huehuetenango, Guat., alt. 1800<sup>m</sup>, Aug. 1896, *Seler*, n. 3082.

**Cyphomandra heterophylla** Donn. Sm.—Glabra. Folia nitida penninervia dimorpha, inferiora ampla utrinsecus 4-pinnatilobata, superiora integra acuminata gemina disparia, alterum e basi inaequali subcordata oblongo-ovatum superne obliquum, alterum dimidio paene brevius cordiforme. Racemi pedunculati simplifices aut e basi furcati scorpioidei elongati, floribus pedicellos aequantibus.

Frutex biogyalis, trunco crasso, ramis fistulosis. Folia coriacea, inferioria (ad ramos primarios tantum obvia) subtus pallidiiora basi cordata circumscriptione oblongo-ovata 3.2-4<sup>dm</sup> longa 3-3.5<sup>dm</sup> lata usqua ad  $\frac{2}{3}$ - $\frac{4}{3}$  lobata, lobis 3 lateralibus cum terminali late oblongis 6-7<sup>cm</sup> latis breviter acuminatis, lobo quarto infimo brevi ovato deflexo, sinibus rotundis crispatis, petiolis 12-15<sup>cm</sup> longis. Folia superiora concoloria 5-6 penninervia, in eodemjugo majus 14-20<sup>cm</sup> longum, 7-11<sup>cm</sup> latum, petiolo 2.5-3<sup>cm</sup> longo, folium minus 7.5-11<sup>cm</sup> longum 6-8.5<sup>cm</sup> latum, petiolo 1.5-2<sup>cm</sup> longo. Racemi circinnati secundiflori pedunculo 4-6<sup>cm</sup> longo adjecto usque ad 12-18<sup>cm</sup> longi, fructiferi usque ad 3<sup>dm</sup> longi. Calyx 5<sup>mm</sup> altus, lobis rotundis apiculo barbato instructis. Corolla purpurascens 20-22<sup>mm</sup> longa, tubo 3<sup>mm</sup> alto, lobis linearis-lanceolatis obtusis ad apicem versus intus pubescentibus. Stamina duas corollae partes aequantia, filamenti complanatis deorsum dilatatis brevissime coalitis 2<sup>mm</sup> longis, antheris linearibus rectis, connectivo postice incrassato sub antherae apice evanido infra loculos gibboso-producto. Ovarium conicum 7<sup>mm</sup> altum in stylum gracilem aequilongum desinens, stigmate capitato. Bacca prasina ovalis 3<sup>cm</sup> longa.—Ad *C. Tejore* Sendt. foliis inferioribus ad *C. Hartwegi* Sendt. foliis superioribus floribusque accedit, ab utraque glabritate recedit.

La Emilia, Llanuras de S. Clara, Cost., alt. 250<sup>m</sup>, Apr. 1896, *Donn. Sm.*, n. 6670 Pl. Guat., etc., qu. ed. *Donn. Sm.*—Buenos Aires, Cost., alt. 300<sup>m</sup>, Jan. 1892, *Tonduz*, n. 6603 herb. nat. Cost.—Turrialba, Cost., alt. 500<sup>m</sup>, Sept. 1894, *Pittier*, n. 9059 herb. nat. Cost.—Santa Clara, Cost., Sept. 1896, *Cooper*, n. 10,215 herb. nat. Cost.—Waldeck prope Madre de Dios, Cost., Oct. 1896, *Pittier*, n. 10,294 herb. nat. Cost.—Tuis, Prov. Cartago, Cost., alt. 650<sup>m</sup>, Nov. 1897, *Tonduz*, n. 11,496 herb. nat. Cost.

**Dermatocalyx parviflorus** Oerst.—Haec species heterogoneo-dimorpha, e solis floribus brevibus 6<sup>mm</sup> longis, antheris subsessilibus, stylo elongato descripta, formam insigniter diversam praebet inflorescentia arcte compacta, floribus 2.8<sup>cm</sup> longis caducissimis, filamentis 1<sup>cm</sup> longis, stylo quam ovarium breviore.—Suffrutex epiphyticus, foliis nonnunquam alternis. Ab incolis *Colmillo* (molaris) vocatur.

Suerre, Llanuras de Santa Clara, Cost., alt. 300<sup>m</sup>, Apr. 1896, *Donn. Sm.*, n. 6706 Pl. Guat., etc., qu. ed. *Donn. Sm.*, forma longiflora.—La Palma, Cost., alt. 1550<sup>m</sup>, Aug. 1898, *Tonduz*, n. 7450 Pl. Guat., etc., qu. ed. *Donn. Sm.* (n. 12,427 herb. nat. Cost.), forma breviflora.

**Alloplectus calochlamys** *Donn. Sm.*—Folia supra velutina subtus cano-sericea magnitudine leviter disparity oblongo-lanceolata utrinque acute angustata. Pedunculi 1-3-ni. Calyx usque

ad quatuor partes partitus, tubo campanulato pentagono, segmentis utrinque sanguineis patulis parum inaequalibus integris replicativis basi mutue applicatis. Corolla succosa cylindrica calycem aequans recta basi parum gibbosa intus immaculata, lobis sanguineis minutis denticulatis. Antherae suborbiculares.

Suffrutex epiphyticus, caule rufescente. Folia in eodem jugo conformia, alterum 16–20<sup>cm</sup> longa 5–6<sup>cm</sup> lata altero quinta parte majus, petiolis canaliculatis marginatis 1.5–2<sup>cm</sup> longis. Pedunculi sericei 1.5–3.5<sup>cm</sup> longi superne incrassati. Bracteæ herbaceæ lineares 1.5<sup>cm</sup> longæ. Calyx subobliquus 2.5<sup>cm</sup> longus, tubo argyrosericeo 5<sup>mm</sup> alto, segmentis oblongo-ovatis villosis. Corolla villosa ad fauces haud contracta, lobis rotundatis 1.5<sup>mm</sup> longis. Vagina staminifera tota paene adnata 8<sup>mm</sup> alta, filamentis tortis 1<sup>cm</sup> longis, staminodio 3<sup>mm</sup> longo, antheris in quadram conniventibus, loculis distinctis ovalibus 2<sup>mm</sup> longis. Disci glandula unica lata. Ovarium ovoideum 4<sup>mm</sup> altum villosum, stylo 1.5<sup>cm</sup> longo superne incrassato, stigmate obliquo bilobato. Fructus ignotus.—*A. tigrino* Hanst. proximus tubo calycino insigniter differt.

Sacoyojú, Depart. Alta Verapaz, Guat., alt. 1200<sup>m</sup>, Maj. 1879, *von Tuerckheim* (a Keck sub n. 456 distrib.).—Pansamalá, Depart. Alta Verapaz, Guat., alt. 1300<sup>m</sup>, Jul. 1886, *von Tuerckheim*, n. 456 Pl. Guat., etc., qu. ed. Donn. Sm.

**Aphelandra dolichantha** Donn. Sm.—Folia nitida elliptica utrinque contracto-acuminata in petiolum brevem decurrentia. Spicae ternae subsessiles simplices, bracteis herbaceis integris ovato-lanceolatis calyce ter quaterve longioribus. Corollæ albae tubus tenuissimus inter longissimos, labia brevia, antici lobis parum inaequalibus. Filamenta brevia, antheris inclusis.

Epiphytica, caule pubescente. Folia integra subtus pallidiora 13–18<sup>cm</sup> longa 6.5–10<sup>cm</sup> lata, nervis lateralibus utrinsecus 9–10 cum costa subtus conspicuis et pubescentibus, petiolis 5–10<sup>mm</sup> longis. Spicae abbreviatae (in exemplaribus suppetentibus vix evolutis 9–11<sup>cm</sup> longæ), bracteis quadrifariis arcte imbricantibus 3–3.5<sup>cm</sup> longis 1.2–1.3<sup>cm</sup> latis praeter margines puberulos glabris plurinerviis. Calycis herbacei puberuli segmenta linearia 9–10<sup>mm</sup> longa acuta. Corollæ extus glandulari-puberulae in sicc. rufescens tubus 5.5–6<sup>cm</sup> longus 2<sup>mm</sup> vix latus ad fauces breves paulo ampliatus ad  $\frac{4}{5}$  longitudinis staminigerus, labium posticum oblongum 13<sup>mm</sup> longum 5<sup>mm</sup> latum breviter bilobum, labii antici lobum intermedium oblongo-ellipticum 18–20<sup>mm</sup> longum 6–7<sup>mm</sup> latum, lateralia oblongo-linearia 15–17<sup>mm</sup> longa 4–5<sup>mm</sup> lata. Filamenta 6<sup>mm</sup> longa, antheris 3<sup>mm</sup> longis apiculatis barba laterali connexis.

Discus cupularis 1.5<sup>mm</sup> altus. Ovarium 2<sup>mm</sup> longum, styli lobis 1<sup>mm</sup> longis. Capsulae desunt.

Suerre, Llanuras de Santa Clara, Cost., alt. 300<sup>m</sup>, Febr. 1896, *Donn. Sm.*, n. 6689 Pl. Guat. etc., qu. ed. *Donn. Sm.*

**Glockeria monolopha** *Donn. Sm.*—Folia subtus lineolata oblongo-ovata acuminata ima basi cuneata. Thyrsi pyramidati laxiflori. Corollae tubus tenuis in fauces late cylindraceas rectas apice haud contractas abrupte ampliatus, labium posticum linearis oblongum, anticum sub angulo recto divergens minutissime acuteque dentatum.

Caulis herbaceus 4<sup>dm</sup> altus tetragonus, angulis glandulari-pubescentibus. Folia untrinque sparsim pubescentia 12–16<sup>cm</sup> longa 6.5–9<sup>cm</sup> lata, petiolis 1.5–4<sup>cm</sup> longis. Thyrsi plerumque gemini folia superantes pubescentes, bracteis 2 foliaceis petiolatis cordiformibus aut oblongo-ovatis 2.5–5<sup>cm</sup> longis, bracteolis subulatis 2–3<sup>mm</sup> longis. Calyx glandulis conspersi segmenta linearia 4–5<sup>mm</sup> longa. Corolla tenuiter membranacea glabra in sicc. flavescentia, tubo 3<sup>mm</sup> longo 1.5<sup>mm</sup> lato, faucibus 1.5<sup>cm</sup> longis, labiis corollam unilobam quasi simulantibus, postico 4<sup>mm</sup> longo integro, antici dentibus lateralibus 0.5<sup>mm</sup> longis, intermedio 0.25<sup>mm</sup> vix longo. Filamenta 3<sup>cm</sup> longa, antheris 3<sup>mm</sup> longis. Capsula tetrasperma 12<sup>mm</sup> longa calyce aucto triente longior in tertiam partem aspermam contracta.

Circa Capetillo juxta vias, Depart. Zacatepéquez, Guat., alt. 1500<sup>m</sup>, Nov. 1889, *Heyde et Lux*, n. 4556 Pl. Guat. etc., qu. ed. *Donn. Sm.*

**Glockeria ventricosa** *Donn. Sm.*—Folia longe petiolata ovata aut oblongo-ovata acuminata basi rotundata aut subcordata. Thyrsus contractus elongatus densiflorus, bracteolis oblongis acuminatis. Corolla supra ovarium antice constricta, tubo antice inflato, faucibus cylindraceis subincurvis apice haud constrictis, labio postico elliptico, antici patentis dentibus brevibus rotundatis.

Suffrutex, ut videtur, ramulis teretibus cano-pilosus. Folia utrinque pilis conspersa 13–17<sup>cm</sup> longa 6.5–9.5<sup>cm</sup> lata, petiolis 4–8<sup>cm</sup> longis. Thyrsus 3.5–5<sup>dm</sup> longus, bracteis 2 foliaceis petiolatis ovato-lanceolatis 3–4.5<sup>cm</sup> longis, bracteolis 8–13<sup>mm</sup> longis. Calyx glandulari-pubescentia 7<sup>mm</sup> longus, fructigerus usque ad 13<sup>mm</sup> longus, segmentis linearibus. Corollae parce pilosae in sicc. coccineæ tubus subglobosus diam. 3–4 millemetralis, fauces 18<sup>mm</sup> longae, labium posticum 8–10<sup>mm</sup> longum 4–5<sup>mm</sup> latum integrum, antici dentibus 1.5<sup>mm</sup> longis.

Filamenta 3.5<sup>cm</sup> longa, antheris 5<sup>mm</sup> longis. Capsula tetrasperma 15-17<sup>mm</sup> longa in tertiam partem aspermam contracta.—Specie praecedenti affinis.

Alto del Roble, Volcan Barba, Cost., alt. 2609<sup>m</sup>, Jan. 1891, *Pittier*, n. 3519 herb. nat. Cost.—Volcan de Turrialba, Cost., alt. 1800<sup>m</sup>, Jan. 1899, *Pittier*, n. 7511 Pl. Guat. etc., qu. ed. Donn. Sm. (n. 13,223 herb. nat. Cost.).

**RAZISEA SPICATA** Oerst.—Species e speciminiibus a solo Oersted adhuc lectis propter inflorescentiam non satis evolutam imperfecte descripta. Racemus longe pedunculatus elongatus, pedicellis primo singulis et brevissimis, aetate provectione plurifasciculatis et internodia aequantibus. Antherae 1-loculares. Ovarium disco subgloboso paulo longius, ovulis in utroque loculo 2, stigmate globoso integro. Capsula linearis-oblonga in dimidiā aspermam contracta, seminibus 4 tuberculatis.

Suffrutex, ut videtur. Folia oblongo-elliptica aut -obovata acuminata in petiolum 1-3<sup>cm</sup> longum attenuata interdum usque ad 32<sup>cm</sup> longa et 11<sup>cm</sup> lata obscure crenata. Pedunculi 4-10<sup>cm</sup> longi, bracteis bracteolatisque linearilanceolatis 3-4<sup>mm</sup> longis, pedicellis interdum 7-fasciculatis et usque ad 8<sup>mm</sup> longis. Calycis tubus 1<sup>mm</sup> longus, segmenta linearia 7<sup>mm</sup> longa. Corolla 5-6<sup>cm</sup> longa, tubo 1<sup>cm</sup> longo in fauces sensim ampliato, labio postico 1<sup>cm</sup> longo, labii antici lobis ovatis 2<sup>mm</sup> longis. Antherae oblongo-ellipticae 4<sup>mm</sup> longae. Discus fere 2<sup>mm</sup> longus atque latus. Ovarium 2.5<sup>mm</sup> longum, stylo 7<sup>m</sup> longo stamina paulo superante. Capsula 2<sup>cm</sup> longa, dimidia superiore torosa, inferiore compressa, seminibus compressis, retinaculis 2.5<sup>mm</sup> longis rectis acutis.

In sylvis prope Siquirres, Llanuras de Santa Clara, Cost., alt. 200<sup>m</sup>, Nov. 1890, *Pittier*, n. 3168 herb. nat. Cost.—Shirores, Talamanca, Cost., alt. 100<sup>m</sup>. Febr. 1895, *Tonduz*, n. 9299 herb. nat. Cost.—In dumetis fundi *Tuis* vocati, Prov. Cartago, Cost., alt. 650<sup>m</sup>, Nov. 1897, *Tonduz*, n. 11503 herb. nat. Cost.—In summo monte juxta La Palma, Cost., alt. 1550<sup>m</sup>, Aug. 1898, *Tonduz*, n. 7436 Pl. Guat. etc., qu. ed. Donn. Sm. (n. 12,494 herb. nat. Cost.).

**Campderia paniculata** Donn. Sm.—Folia cordiformia atque lata atque longa, apice bilobo. Racemi compositi in paniculam terminalem dispositi, pedicellis plurifasciculatis minute bracteolatis filiformibus. Perianthium alis in pedicellum decurrentis, fructiferum parvum obovoideum.

Arbuscula (Thieme in schedula), ramulis cinereo-pubescentibus sulcatis flexuosis. Folia supra puberulo-asperula subtus fusco-pubescentia diametro

12–16 centimetralia, lobis subdeltoideis 1–3<sup>cm</sup> longis obtusis sub angulo semi-recto divergentibus, petiolis 1.5–3<sup>cm</sup> longis, ocreis ovalibus 4<sup>mm</sup> longis crassis caducis. Panicula sessilis folia aequans late pyramidata floribunda, bractea amplectente orbiculari 1.5–3.5<sup>cm</sup> longa usque ad medianam bifida, bracteolis vix 1<sup>mm</sup> longis, pedicellis 4–7-nis 3–4<sup>mm</sup> longis triquetris medio articulatis. Perianthii coccinei 2<sup>mm</sup> longi segmenta paene sejuncta ovalia, exteriora 3 late alata, interiora 2 plana. Filamenta brevissime monadelpha sensim dilatata ciliolulata 2<sup>mm</sup> longa, antherarum loculis subglobosis discretis. Styli deflexi 0.5<sup>mm</sup> longi. Perianthium fructiferum 5<sup>mm</sup> longum pedicello longius, alis 1<sup>mm</sup> latis, nuce triquetra ovoidea 3<sup>mm</sup> longa nitida, semine conformi esulcato atro. Ab omnibus congeneribus tam foliis quam inflorescentia insignerit differt.

Ad ripas fluminis Chamelecon, Depart. Santa Bárbara, Honduras, alt. 500<sup>m</sup>, Dec. 1888, C. Thieme, n. 5604 Pl. Guat. etc., qu. ed. Donn. Sm.

**Euphorbia Chaculana** Donn. Sm. (§ TITHYMALOPSIS Kl. et Garcke.)—Sparsim pubescens. Radix tuberosa fusiformis, caulis 3-chotomis, ramis repetitus dichotomis. Folia brevissime petiolata linearis-oblunga utrinque obtusa, chotomalia interdum ternata, majora oblongo-ovata. Involucra e dichotomiis graciliter pedunculata campanulata glabra, appendicibus coloratis ovalibus. Semina ovalia subquadrangula rugosa glabra.

Herba 8–17<sup>cm</sup>, alta, radice 2<sup>cm</sup> longa, diam. 1 centimetrali, caulis stricte longeque ramosis, glandulis stipularibus nullis. Folia 1–1.5<sup>cm</sup> longa 3–5<sup>mm</sup> lata cartilagineo-marginata praeter costam subtus tantum manifestam enervia, facie superiori minute lepidota, utraque sparsim et margine densius pubescens, petiolis 1<sup>mm</sup> longis. Pedunculi 7–12<sup>mm</sup> longi folia fulciantia plerumque aequantes. Involucrum 1<sup>mm</sup> altum atque latum, lobis minutis fimbriatis, glandulis 5 transverse ellipticis, appendicibus glandula vix latioribus involucro aequilongis integris aut erosionis. Capsula glabra 3<sup>mm</sup> alta, seminibus 2<sup>mm</sup> longis. Styli deficiunt.—Ad *E. bififorme* S. Wats. et *E. Plumeriae* S. Wats. proxime accedens, ab ea foliis subsesilibus, ab hac seminum sculptura, ab utraque pedunculis longioribus recedit.

Chaculá, Depart. Huehuetenango, Guat., alt. 1600<sup>m</sup>, Jan. 1896, Seler, n. 3128.

**Euphorbia Seleri** Donn. Sm. (§ CHAMAESYCEÆ Boiss.)—Canescens. Rhizoma lignosum, caulis procumbentibus dichotomis, setulis stipularibus geminis. Folia breviter petiolata e basi semicordata ovata obtusa integerrima glabrescentia. Involucra

ad nodos supremos in axilla una solitaria breviter pedunculata campanulata subglabra, lobis trianguli-subulatis, glandulis transverse ovalibus flavescentibus, appendicibus obovatis integris. Styli longiusculi. Semina ovata subtrigona rugulosa.

Rhizoma 1<sup>dm</sup> longum ramosum. Caules pubescentes 10-15<sup>cm</sup> longi, stipulis 1<sup>mm</sup> longis. Folia disticha opposita 5-7<sup>mm</sup> longa 4-5<sup>mm</sup> lata carnulosa exceptis novellis fere glabra, inferiora minora, petiolis quam stipulae paulo longioribus. Pedunculi 1-2<sup>mm</sup> longi. Involucra 1.5<sup>mm</sup> longa 1<sup>mm</sup> lata a foliis fulcientibus 2-3-plo superata, lobis ciliatulis, glandulis 4, appendicibus albis 1.5<sup>mm</sup> longis ad apicem versus 1<sup>mm</sup> latis basi glandula aequilatis. Styli 1<sup>mm</sup> longi basi coaliti ultra medium bifidi. Capsulae (immatureae tantum suppetentes) paene glabrae, coccis subcarinatis, seminibus erubescensibus.

Chaculá, Depart. Huehuetenango, Guat., alt. 1600<sup>m</sup>, Jan. 1896, *Seler*, n. 3127.

*CECROPIA MEXICANA* Hémsl. var. *macrostachya* Donn. Sm.—  
Spicae femininae quaternae usque ad 4<sup>dm</sup> longae, pedunculis par-  
tialibus 8<sup>mm</sup> longis glabris estriatis, seminibus brevius ovalibus.

Laguna de Buenos Aires, Cost., alt. 300<sup>m</sup>, Febr. 1892, *Pittier*, n. 6666  
herb. nat. Cost.—Atirro, Prov. Cartago, Cost., Mart. 1894, *Donn. Sm.*, n. 4934  
Pl. Guat. etc. qu. ed. Donn. Sm.—Rio Poas, Cost., alt. 1200<sup>m</sup>, Mart. 1896,  
*Donn. Sm.*, n. 6771 Pl. Guat. etc., qu. ed. Donn. Sm.—La Concepcion, Lla-  
nuras de Santa Clara, Cost., alt. 200<sup>m</sup>, Febr. 1896, *Donn. Sm.*, n. 6774 Pl.  
Guat. etc., qu. ed. Donn. Sm.

*Cecropia polyphlebia* Donn. Sm.—Folia supra strigoso-scab-  
rida subitus niveo-arachnoidea 10-11-fida, segmentis obovato-  
oblongis breviter acuminatis, nervis lateralibus arcte approximatis  
juxta marginem arcuato-anastomosantibus sicut costae venaeque  
subitus fuscis, petiolis glabris costas mayores aequantibus. Spicae  
femininae sessiles quaternae breves crassae pedunculo brevissimo  
3-plo longiores. Semina oblonga.

Stipulae longe denseque cinereo-sericeae 9-11<sup>cm</sup> longae. Folia coriacea  
pilis e tuberculo ortis aspera peltata suborbicularia 4<sup>dm</sup> in diametro superne  
usque ad 5 partes inferne usque ad 7 partes fissa, segmentis plerumque 10,  
majoribus infra apicem 7-8.5<sup>cm</sup> latis, minoribus 3.5-5<sup>cm</sup> latis, costis subtus  
validis et cinereo-pubescentibus, majoribus 20-24<sup>cm</sup> longis, minoribus 12-14<sup>cm</sup>  
longis, nervis lateralibus utrinsecus 20-30, venis subparallele transversis  
crebris. Pedunculus communis femininus 1.5-2<sup>cm</sup> longus, spicis 4.5-5.5<sup>cm</sup>

longis 1<sup>cm</sup> in diam. seminibus 2,2<sup>mm</sup> longis, compressione 3-4-gonis scrobulatis flavescentibus. Spathae utriusque sexus et spicae masculinae desunt.—*C. tubulosae* Ruiz proxima, ut videtur. *C. Humboldtiana* Klotzsch ob inflorescentiam fem. (descriptione adhuc carentem) nostrae speciei affinis, foliis tamen discrepans, pedunculum fem. 3,5-4<sup>cm</sup> longum praebet, spicas habet 2-9-nas plerumque quinas sessiles 5,5-7<sup>cm</sup> longas 7<sup>mm</sup> in diam., semina elliptica compressa scrobiculata flavescentia.

In sylvis prope LaPalma, Cost., alt. 1460<sup>m</sup>, Sept. 1898, *Tonduz*, n. 7411 Pl. Guat. etc., qu. ed. Donn. Sm. (n. 12,642 herb. nat. Cost.).

BALTIMORE, MD.